

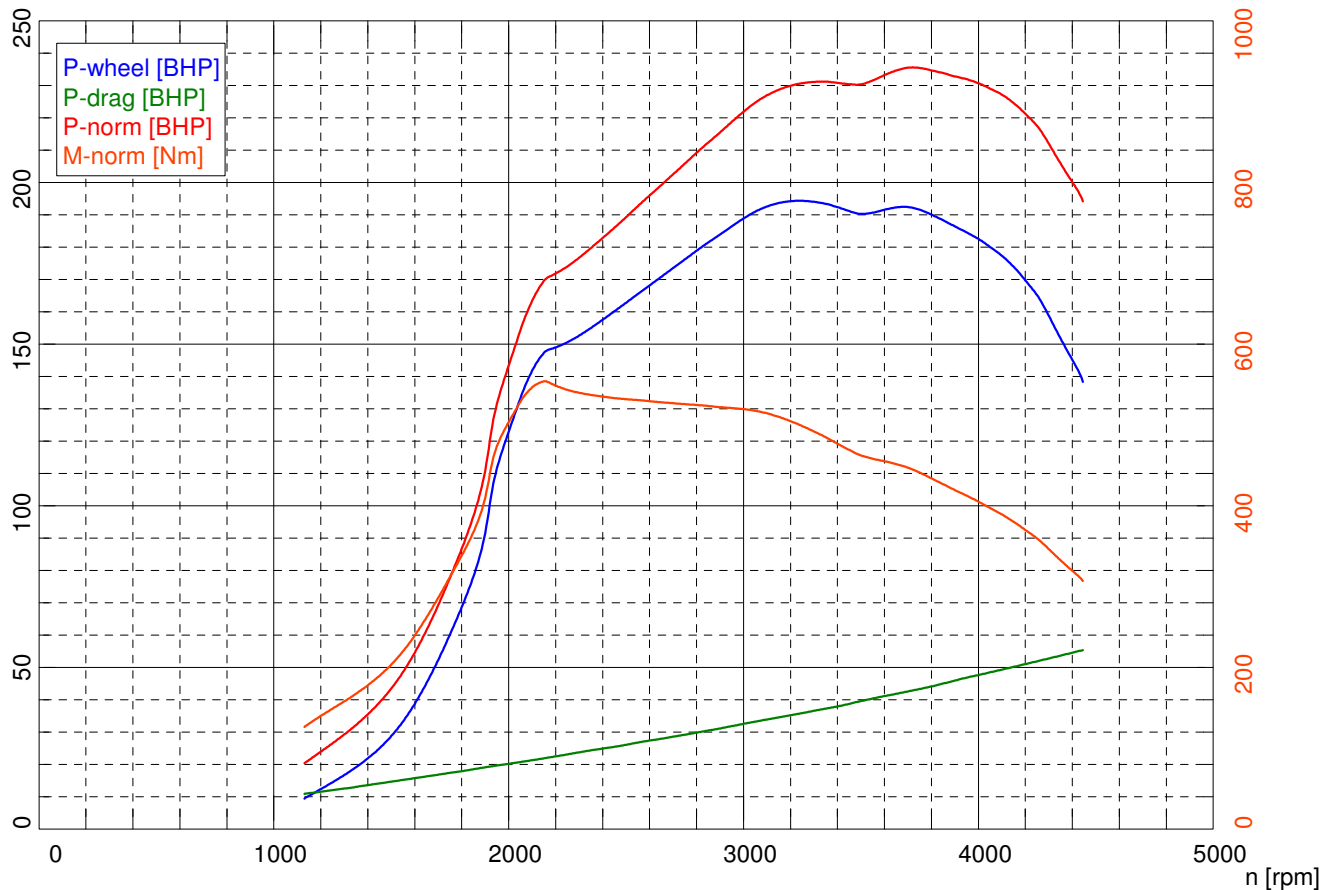
Vehicle type: BMW E39 530D 193cv
 License plate: BT7808BT
 Inspector: Nikolay Nikolov

Diesel-Motor / Turbo charger (air-cooled)
 Manual transmission

Chip Tuning

Measurement date: 29.03.2015 (16:25)

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Power data	
Corrected power ¹⁾	P_{Norm} 235.5 BHP / 173.2 kW
Engine power	P_{Eng} 234.9 BHP / 172.8 kW
Wheel power	P_{Wheel} 192.0 BHP / 141.2 kW
Drag power	P_{Drag} 42.8 BHP / 31.5 kW
Max. power at	3720 rpm / 147.5 km/h
Torque ¹⁾	M_{Norm} 553.6 Nm
Max. Torque at	2155 rpm / 85.4 km/h
Max. attained RPM	4445 rpm / 176.3 km/h
¹⁾ Correction acc. to DIN 70020 Correction factors: $Q_v = 0.00\%$	

Ambient data	
Ambient temperature	$T_{Ambient}$ 12.0 °C
Intake air temperature	$T_{Intake\ air}$ 12.8 °C
Relative humidity	H_{Air} 65.9 %
Air pressure	p_{Air} 990.1 hPa
Steam pressure	p_{Steam} 9.3 hPa
Oil temperature	T_{Oil} ---- °C
Fuel temperature	T_{Fuel} ---- °C

Slip	
Speed no load	$V_{no\ load}$ ---- km/h
RPM no load	$n_{no\ load}$ ---- rpm
Speed full load	$V_{full\ load}$ ---- km/h
RPM full load	$n_{full\ load}$ ---- rpm
Slip	---- %

Rotating mass	
Average delay run down 1	a_1 ---- m/s ²
Average Brake force run down 1	F_1 ---- N
Average delay run down 2	a_2 ---- m/s ²
Average brake force run down 2	F_2 ---- N
Force of the rotating mass	$F_{rot-total}$ ---- N
Rotating total mass	$m_{rot-total}$ 310.0 kg
Rotating test stand mass	$m_{rot-dyno}$ 250.0 kg
Rotating vehicle mass	$m_{rot-vehicle}$ 60.0 kg